

Name: MINGXIANG LIANG

Professor of Plant and Microbial biology

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Education:

- Ph.D. in Plant Science, Utah State University,2010
- Master in Microbiology, Nanjing Normal University,2003
- Bachelor in Biology Education, Nanjing Normal University,2000

Research interests and expertise:

- Abiotic stress
- Sugar metabolism
- Plant and microbe interaction

Current teaching:

- Molecular Ecology
- Physiological Ecology
- Marine Molecular biology
- Marine Microbiology

Selected publications:

- Jiao Jiao, Ji Wang, Mengjia Zhou,Xuyang Ren, Wenyue Zhan, Zongjiu Sun, Haiyan Zhao, Yao Yang,Mingxiang Liang*,Wim Van den Ende* , Characterization of fructan metabolism during Jerusalem artichoke (*Helianthus tuberosus* L.) germination, *Frontiers in Plant Science*,2018, DOI: 10.3389/fpls.2018.01384
- Wenyue Zhan, Lijin Jin, Jiao Jiao, Xi Zhang, Yan Zhang, Haiyan Zhao, Mingxiang Liang*, Expression and purification of plant fructan exohydrolases and their potential applications in fructose production, *International Journal of Biological Macromolecules*, (2018) 108 :9–17
- Li Xu, Dong Yan, Xuyang Ren, Yiyang Wei, Jing Zhou, Haiyan Zhao, Mingxiang Liang*, Vermicompost improves the physiological and biochemical responses of blessed thistle (*Silybum marianum* Gaertn.) and peppermint(*Mentha haplocalyx* Briq) to salinity stress, *Industrial Crops and Products*, (2016) 94: 574–585
- Xi Zhang, Huanhuan Xu, Ruixin Fu,Lijin Jin,Haiyan Zhao, Lin Wang, Mingxiang Liang*, Bioethanol production by heterologous expression of two individual 1-FEH genes from *Helianthus tuberosus* in *Saccharomyces cerevisiae* 6525, *Bioenergy Research*, (2016) 9:884–893
- Huanhuan Xu, Mingxiang Liang*, Li Xu, Hui Li, Xi Zhang, Jian Kang, Qingxin Zhao, Haiyan Zhao, Cloning and functional characterization of two abiotic stress-responsive

Jerusalem artichoke (*Helianthus tuberosus*) fructan 1-exohydrolases (1-FEHs), *Plant Molecular Biology*, (2015) 87:81–98

Prizes, awards, honors:

- 2018, Six Talents Summit in Jiangsu Province
- 2016,2017,2018 Supervisor for Excellent Master Thesis
- 2010,G.O.MOTTE Meritorious Graduate Student Award